

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1430 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/541,483	03/31/2006	Andrew Vince	FP 22044	8199	
757 BRINKS HOFER GILSON & LIONE P.O. BOX 10395			EXAMINER		
			HAGEMAN, MARK		
CHICAGO, IL	. 60610		ART UNIT	PAPER NUMBER	
			3653		
			MAIL DATE	DELIVERY MODE	
			09/16/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/541,483	VINCE, ANDREW		
Examiner	Art Unit		
Mark Hageman	3653		

	Mark Hageman	3653					
The MAILING DATE of this communication app	ears on the cover sheet with the o	orrespondence ad	ldress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA- Extensions of time may be available under the provisions of 37 CFR 1.36 If the provision of 37 CFR 1.36 If NO proof for reply is a specified above, the maximum statutory period we reply within the act or extended period for reply with partial what, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on 06 Ju	ly 2005						
							
·	-						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	03 U.G. 213.					
Disposition of Claims							
4) Claim(s) 1-56 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-56 are subject to restriction and/or e	lection requirement.						
,_ ,, ;	•						
Application Papers							
9)☐ The specification is objected to by the Examiner	. .						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1	ГО-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (t).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
Certified copies of the priority documents have been received.							
 Certified copies of the priority documents have been received in Application No 							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attack manufa)							
Attachment(s)	4) 🗖 Intonious Summorus	(DTO 412)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO/SE/08)	5) Notice of Informal F	atent Application					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Paper No(s)/Mail Date _____.

6) Other: _____

Page 2

Application/Control Number: 10/541,483

Art Unit: 3653

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1, 2, 20, 30, 47, drawn to methods and apparatus using a medium density separator.

Group 2, claim(s) 1, 3, 20, 30, 47, drawn to methods and apparatus using a classifying separator.

Group 3, claim(s) 1, 4, 13, 20, 21, 30, 47, 48, 50 drawn to methods and apparatus using a heavy medium separator.

Group 4, claim(s) 1, 5, 6, 20, 22, 30, 31, 32, 47, 49 drawn to methods and apparatus determining a set of values.

Group 5, claim(s) 1, 7, 20, 23, 30, 33, 39, 47, drawn to methods and apparatus monitoring the density of the medium.

Group 6, claim(s) 1, 8, 14, 15, 20, 26, 27, 30, 34, 42, 43, 47, 51 52 drawn to methods and apparatus monitoring the pressure of the medium.

Group 7, claim(s) 1, 9, 20, 30, 35, 47, 53, 54 drawn to methods and apparatus monitoring the feed rate of the medium and particles.

Group 8, claim(s) 1, 10, 16, 17, 20, 24, 25, 30, 36, 40, 41, 47, drawn to methods and apparatus monitoring the overall feed rate.

Group 9, claim(s) 1, 11, 18, 19, 20, 28, 29, 30, 37, 44, 45, 46, 47, 55, 56, drawn to methods and apparatus monitoring the ratio of volume or mass flow.

Application/Control Number: 10/541,483

Art Unit: 3653

Group 10, claim(s) 1, 12, 20, 30, 38, 47, drawn to methods and apparatus monitoring two or more parameters.

- 2. The inventions listed as Groups 1-12 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The independent claims lack a special technical features as they are methods or apparatus that provide feedback control for a separator which is known in the art. This being the case the various features of the set forth sets of dependent claims exhibit the different inventive features as mentioned above.
- 3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Hageman whose telephone number is (571) 272-3027. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/541,483 Page 4

Art Unit: 3653

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrick H. Mackey/ Supervisory Patent Examiner, Art Unit 3653

MCH